Amendments to the Claims:

1. (Currently Amended) A method of reducing interference within a local channel signal received during operation of a mobile station in at least one of an idle state ~~and~~ or an access state, the method comprising:

selecting at least one interfering pilot channel signal that has a signal strength above a threshold, wherein the selected at least one interfering pilot channel signal ~~comprises~~ constitutes an interfering set of pilot channel signals; and

producing a corrected local channel signal based upon the interfering set of pilot channel signals during the at least one of the idle state ~~and~~ or the access state.

2. (Original) A method according to Claim 1, wherein selecting at least one interfering pilot channel signal and producing a corrected local channel signal comprise repeatedly selecting at least one interfering pilot channel signal and repeatedly producing a corrected local channel, respectively, and wherein the method further comprises:

repeatedly comparing the selected interfering pilot channel signals to the threshold, and removing a selected interfering pilot channel signal from the interfering set of pilot channel signals when the signal strength of the respective selected interfering pilot channel signal decreases below the threshold.

3. (Original) A method according to Claim 1, wherein the local channel signal is received in a receiver including a rake receiver having at least a first finger assigned to the local channel signal and a second finger assigned to one of the interfering set of pilot channel signals, and wherein producing a corrected local channel signal comprises:

producing an interference signal based on a despreading sequence associated with the first finger, and a pilot channel pseudonoise (pn) sequence corresponding to the second finger, wherein producing the interference signal comprises correlating the despreading sequence with the pilot channel pn sequence;

producing a correction signal corresponding to the first finger based on the interference

signal and a received pilot signal corresponding to the second finger; and

subtracting the correction signal from the local channel signal to produce a corrected local channel signal.

4. (Original) A method according to Claim 3, wherein producing a corrected local channel signal further comprises:

producing a second interference signal based on the despreading sequence associated with the first finger and a second pilot channel pn sequence corresponding to a third finger of the rake receiver, wherein the third finger is assigned to one of the local channel signal and a pilot channel signal from the interfering set of pilot channel signals; and

producing a second correction signal corresponding to the first finger based on the second interference signal and a received pilot signal corresponding to the third finger,

and wherein subtracting the correction signal further comprises subtracting the second correction signal from the local channel signal to produce the corrected local channel signal.

5. (Original) A method according to Claim 3, wherein the first finger and the second finger are two fingers of n fingers of the rake receiver, wherein each finger is assigned to one of the local channel signal and a pilot channel signal from the interfering set of pilot channel signals, wherein producing a corrected local channel signal further comprises:

producing n-1 interference signals corresponding to the first finger, each interference signal of the n-1 interference signals based on the despreading sequence associated with the first finger, and one of n-1 pilot channel pn sequences corresponding to the n fingers excluding the first finger; and

producing n-1 correction signals corresponding to the first finger, each correction signal based on each interference signal of the n-1 interference signals and a received pilot channel signal corresponding to one of n fingers other than the first finger,

and wherein subtracting the correction signal comprises subtracting the n-1 correction signals from the local channel signal to produce the corrected local channel signal.

6. (Original) A method according to Claim 5, wherein producing a corrected local channel signal further comprises:

producing a group of n-1 interference signals corresponding to each of the n fingers of the rake receiver other than the first finger that are assigned to the local channel signal;

producing a group of n-1 correction signals corresponding to each of the n fingers of the rake receiver other than the first finger that are assigned to the local channel signal; and

producing a corrected local channel signal for each of the n fingers other than the first finger that are assigned to the local channel signal, and wherein producing a corrected local signal for each of the n fingers other than the first finger comprises subtracting the group of n-1 correction signals from a corresponding local channel signal received by each of the n fingers other than the first finger.

7. (Original) A method according to Claim 3, wherein producing a corrected local channel signal further comprises:

interpolating a value of a pilot channel pseudonoise (pn) sequence corresponding to the second finger to produce a pilot channel pn sequence corresponding to the second finger; and

digitally filtering the pilot channel pn sequence with a digital filter, the digital filter having an impulse response in accordance with a function equal to the convolution of an input impulse response of an input filter to the receiver and an output impulse response of a transmitter filter of a transmitter transmitting the pilot channel signal of the interfering set of pilot channel signals.

8. (Original) A method according to Claim 7, wherein producing an interference signal comprises correlating the despreading sequence with the pilot channel pn sequence after the pilot channel pn sequence has been filtered in the digital filter.

9. (Original) A method according to Claim 8, wherein producing the correction signal comprises multiplying the interference signal with the received pilot signal corresponding to the second finger.

10. (Original) A method according to Claim 3, wherein producing a correction signal corresponding to the first finger comprises multiplying the interference signal and the received pilot signal.

11. (Currently Amended) A system for reducing interference within a local channel signal received during operation of the system in at least one of an idle state ~~and~~ or an access state, the system comprising:

a controller ~~capable of selecting~~ configured to select at least one interfering pilot channel signal that has a signal strength above a threshold, wherein the selected at least one interfering pilot channel signal ~~comprises~~ constitutes an interfering set of pilot channel signals; and

a finger demodulator assembly ~~capable of producing~~ configured to produce a corrected local channel signal based upon the interfering set of pilot channel signals during the at least one of the idle state ~~and~~ or the access state.

12. (Currently Amended) A system according to Claim 11, wherein the controller is ~~capable of~~ configured to repeatedly ~~selecting~~ select at least one interfering pilot channel signal, wherein the finger demodulator assembly is ~~capable of~~ configured to repeatedly ~~producing~~ produce a corrected local channel~~, respectively~~, and wherein the controller is further ~~capable of~~ configured to repeatedly ~~comparing~~ compare the selected interfering pilot channel signals to the threshold such that the controller is ~~capable of removing~~ configured to remove a selected interfering pilot channel signal from the interfering set of pilot channel signals when the signal strength of the respective selected interfering pilot channel signal decreases below the threshold.

13. (Currently Amended) A system according to Claim 11, wherein the finger demodulator assembly comprises:

a rake receiver comprising:

a first finger assigned to the local channel signal; and

a second finger assigned to one of the interfering set of pilot channel signals;

a cancellation element associated with the first finger, wherein the cancellation element is ~~capable of producing~~ configured to produce an interference signal based on a despreading sequence associated with the first finger, and a pilot channel pseudonoise (pn) sequence corresponding to the second finger, wherein the cancellation element is ~~capable of producing~~ configured to produce the interference signal by correlating the despreading sequence with the pilot channel pn sequence, and wherein the cancellation element is ~~capable of producing~~ configured to produce a correction signal corresponding to the first finger based on the interference signal and a received pilot signal corresponding to the second finger; and

a correction element associated with the first finger, wherein the correction element is ~~capable of subtracting~~ configured to subtract the correction signal from the local channel signal to produce a corrected local channel signal.

14. (Currently Amended) A system according to Claim 13, wherein the rake receiver further comprises:

a third finger assigned to one of the local channel signal and a pilot channel signal from the interfering set of pilot channel signals,

wherein the cancellation element is ~~capable of producing~~ configured to produce a second interference signal based on the despreading sequence associated with the first finger and a second pilot channel pn sequence corresponding to the third finger, wherein the cancellation element is ~~capable of producing~~ configured to produce a second correction signal corresponding to the first finger based on the second interference signal and a received pilot signal corresponding to the third finger,

and wherein the correction element is ~~capable of producing~~ configured to produce the corrected local channel signal by further subtracting the second correction signal from the local channel signal.

15. (Currently Amended) A system according to Claim 13, wherein the rake receiver comprises n fingers including the first finger and the second finger, wherein each finger is assigned to one of the local channel signal and a pilot channel signal from the interfering set of

pilot channel signals,

wherein the cancellation element is ~~capable of producing~~ configured to produce n-1 interference signals corresponding to the first finger, each interference signal of the n-1 interference signals based on the despreading sequence associated with the first finger, and one of n-1 pilot channel pn sequences corresponding to the n fingers excluding the first finger, wherein the cancellation element is also ~~capable of producing~~ configured to produce n-1 correction signals corresponding to the first finger, each correction signal based on each interference signal of the n-1 interference signals and a received pilot channel signal corresponding to one of n fingers other than the first finger,

and wherein the correction element is ~~capable of producing~~ configured to produce the corrected local channel signal by subtracting the n-1 correction signals from the local channel signal.

16. (Currently Amended) A system according to Claim 15, wherein the cancellation element comprises n cancellation elements, each cancellation element associated with one of the n fingers, wherein each cancellation element for each finger that is assigned to the local channel signal is ~~capable of producing~~ configured to produce a group of n-1 interference signals corresponding to each of the n fingers of the rake receiver other than the finger associated with the respective cancellation element, wherein each cancellation element is also ~~capable of producing~~ configured to produce a group of n-1 correction signals corresponding to each of the n fingers of the rake receiver other than the finger associated with the respective cancellation element,

wherein the correction element comprises n correction elements, each correction element associated with one of the n fingers, wherein each correction element for each finger that is assigned to the local channel signal is ~~capable of producing~~ configured to produce a corrected local channel signal for each of the n fingers of the rake receiver other than the finger associated with the respective correction element, and wherein each correction element is ~~capable of producing~~ configured to produce the corrected local channel signal by subtracting the group of n-1 correction signals from the local channel signal assigned to the finger associated with the

respective correction element.

17. (Currently Amended) A system according to Claim 13, wherein the cancellation element further comprises a cancellation element associated with the second finger, wherein the cancellation element associated with the second finger is ~~capable of interpolating~~ configured to interpolate a value of a pilot channel pseudonoise (pn) sequence corresponding to the second finger to produce a pilot channel pn sequence corresponding to the second finger, and wherein the cancellation element associated with the second finger includes a digital filter ~~capable of~~ configured to digitally ~~filtering~~ filter the pilot channel pn sequence, the digital filter having an impulse response in accordance with a function equal to the convolution of an input impulse response of an input filter to the receiver and an output impulse response of a transmitter filter of a transmitter transmitting the pilot channel signal of the interfering set of pilot channel signals.

18. (Currently Amended) A system according to Claim 17, wherein the cancellation element associated with the first finger is ~~capable of producing~~ configured to produce an interference signal by correlating the despreading sequence with the pilot channel pn sequence after the pilot channel pn sequence has been filtered in the digital filter.

19. (Currently Amended) A system according to Claim 18, wherein the cancellation element associated with the first finger is ~~capable of producing~~ configured to produce the correction signal by multiplying the interference signal with the received pilot signal corresponding to the second finger.

20. (Currently Amended) A system according to Claim 13, wherein the cancellation element is ~~capable of producing~~ configured to produce a correction signal corresponding to the first finger by multiplying the interference signal and the received pilot signal.

21. (Currently Amended) A system for reducing interference within a local channel signal received during operation of the system in at least one of an idle state ~~and~~ or an access state, the system comprising:

a controller ~~capable of selecting~~ configured to select at least one interfering pilot channel signal that has a signal strength above a threshold, wherein the selected at least one interfering pilot channel signal ~~comprises~~ constitutes an interfering set of pilot channel signals;

a rake receiver comprising:

a first finger assigned to the local channel signal; and

a second finger assigned to one of the interfering set of pilot channel signals; and

noise reduction element associated with the first finger, wherein the noise reduction element comprises:

a correlator ~~adapted~~ configured to correlate an interpolated pilot channel pseudonoise (pn) sequence corresponding to the second finger with a despreading sequence corresponding to the first finger to produce an interference signal;

a multiplier ~~adapted~~ configured to multiply the interference signal with a received pilot signal corresponding to the second finger to produce a correction signal; and

a subtractor ~~adapted~~ configured to subtract the correction signal from the local channel signal to produce a corrected local channel signal.

22. (Currently Amended) A system according to Claim 21, wherein the rake receiver further comprises:

a third finger assigned to one of the local channel signal and a pilot channel signal from the interfering set of pilot channel signals,

wherein the noise reduction element further comprises:

a second correlator ~~adapted~~ configured to correlate an interpolated pilot channel pn sequence corresponding to the third finger with the despreading sequence corresponding to the first finger to produce a second interference signal; and

a second multiplier ~~adapted~~ configured to multiply the second interference signal with a received pilot signal corresponding to the third finger to produce a second correction signal,

and wherein subtractor is ~~adapted~~ configured to further subtract the second correction signal from the local channel signal to produce a corrected local channel signal.

23. (Currently Amended) A system according to Claim 21, wherein the rake receiver comprises n fingers including the first finger and the second finger, wherein each finger is assigned to one of the local channel signal and a pilot channel signal from the interfering set of pilot channel signals,

wherein the noise reduction element comprises:

n-1 correlators, each correlator ~~adapted~~ configured to correlate one of n-1 pilot channel pn sequences corresponding to the n fingers excluding the first finger with the despreading sequence corresponding to the first finger to produce one of n-1 interference signals corresponding to the first finger; and

n-1 multipliers, each multiplier ~~adapted~~ configured to multiply one of the n-1 interference signals and a received pilot channel signal corresponding to one of n fingers other than the first finger to produce n-1 correction signals,

and wherein the subtractor is ~~adapted~~ configured to subtract the n-1 correction signals from the local channel signal to produce a corrected local channel signal.

24. (Currently Amended) A system according to Claim 23, wherein the noise reduction element comprises n noise reduction elements, each noise reduction element associated with one of the n fingers of the rake receiver,

wherein each correlator of each noise reduction element associated with a finger assigned to the local channel signal is ~~adapted~~ configured to correlate one of n-1 pilot channel pn sequences corresponding to the n fingers other than the finger associated with the respective noise reduction element, with the despreading sequence corresponding to the finger associated with the noise reduction element including the respective correlator, to produce one of n-1 interference signals corresponding to the respective noise reduction element,

wherein each multiplier of each noise reduction element associated with a finger assigned to the local channel signal is ~~adapted~~ configured to multiply one of n-1 interference signals

corresponding to the respective noise reduction element and a received pilot channel signal corresponding to one of n fingers other than the finger associated with the respective noise reduction element to produce one of n-1 correction signals corresponding to the respective noise reduction element,

and wherein each subtractor of each noise reduction element associated with a finger assigned to the local channel signal is ~~adapted~~ configured to subtract the n-1 correction signals corresponding to the respective noise reduction element from the local channel signal assigned to the finger associated with the respective noise reduction element to produce a corrected local channel signal.

25. (New) A method according to Claim 1, wherein selecting at least one interfering pilot channel signal comprises selecting at least one interfering pilot channel signal transmitted from at least one base station other than a local base station from which the mobile station receives a local pilot channel signal.

26. (New) A method according to Claim 1, wherein selecting at least one interfering pilot channel signal comprises selecting at least one interfering pilot channel signal originating separate from a local pilot channel signal, the at least one pilot channel signal and a local pilot channel signal each including respective multipath components.

27. (New) A system according to Claim 11, wherein the controller is configured to select at least one interfering pilot channel signal transmitted from at least one base station other than a local base station from which the mobile station receives a local pilot channel signal.

28. (New) A system according to Claim 11, wherein the controller is configured to select at least one interfering pilot channel signal originating separate from a local pilot channel signal, the at least one pilot channel signal and a local pilot channel signal each including respective multipath components.

29. (New) A system according to Claim 21, wherein the controller is configured to select at least one interfering pilot channel signal transmitted from at least one base station other than a local base station from which the mobile station receives a local pilot channel signal.

30. (New) A system according to Claim 21, wherein the controller is configured to select at least one interfering pilot channel signal originating separate from a local pilot channel signal, the at least one pilot channel signal and a local pilot channel signal each including respective multipath components.